

## Finding $n^{\text{th}}$ term

The  $n^{\text{th}}$  partial sum of the series is given. Find the indicated term of the series.

1)  $S_n = \left(\frac{n+5}{n-3}\right)$ ; 10<sup>th</sup> term

2)  $S_n = \left(\frac{n^2-1}{2n+1}\right)$ ; 12<sup>th</sup> term

3)  $S_n = n^3$ ; 33<sup>rd</sup>

4)  $S_n = n^2$ ; 25<sup>th</sup> term

5)  $S_n = (400 - n)$

6)  $S_n = (n^2 - 1)$ ; 11<sup>th</sup> term

7)  $S_n = \left(\frac{n-1}{4n}\right)$ ; 36<sup>th</sup> term

8)  $S_n = (n^3 + 1)$ ; 15<sup>th</sup> term

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$\frac{4}{21}$   $\frac{289}{575}$   
; 25<sup>th</sup> term

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$\frac{1}{5040}$

631

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